

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

Search: The ACM Digital Library The Guide

[SEARCH](#)

Searching within **The Guide** with **Advanced Search**: (cluster and tree and service and node and lock search)

Found 134 of 1,383,515

REFINE YOUR SEARCH

▼ Refine by Keywords

[Discover Terms](#)

▼ Refine by People Names Institutions Authors Reviewers

▼ Refine by Publications Publication Year Publication Names ACM Publications All Publications Content Formats Publishers

▼ Refine by Conferences Sponsors Events Proceeding Series

ADVANCED SEARCH

Advanced Search

FEEDBACK

Please provide us with feedback

Found 134 of 1,383,515

Search Results

Related Journals

Related Magazines

Related SIGs

Results 1 - 20 of 134

Sort by relevance

Result per page

1 Optimizing lock protocols for native XML processing

Michael Haustein, Theo Härdter

April 2008 **Data & Knowledge Engineering**, Volume 65 Issue 1

Publisher: Elsevier Science Publishers B. V.

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Processing XML documents in multi-user database management environments. This paper presents a new approach to support of typical XML document processing (XDP) interfaces, and concurrent access to XML data model. In this paper, ...

Keywords: DOM-based XML processing, Fine-grained locking, Lock compatibility, XML processing, XML locking

2 Scalable hierarchical locking for distributed systems

Nirmil Desai, Frank Mueller

June 2004 **Journal of Parallel and Distributed Computing**, Volume 64 Issue 6

Publisher: Academic Press, Inc.

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Middleware components are becoming increasingly important as application components in distributed environments, such as high-end clusters with ever larger numbers of nodes and increasingly large server farms. ...

Keywords: concurrency services, distributed agreement, distributed mutex, distributed allocation, distributed transactions, hierarchical locking, large-scale distributed systems, peer-to-peer protocols, scalability

3 Evaluating design alternatives for reliable communication on high-speed networks

Raoul A. F. Bhoedjang, Kees Verstoep, Tim Rühl, Henri E. Bal, Ruiger E. H. Hoogendoorn, and Henk M. Belderrain

December 2000 **ASPLOS-IX: Proceedings of the ninth international conference on programming languages and operating systems**

Publisher: ACM Request Permissions

Full text available: Pdf (147.96 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 35, Downloads (all time): 100

We systematically evaluate the performance of five implementations of a s interface. Each implementation makes different architectural assumptions : hardware and the capabilities of the ...

Also published in:

December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5

December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

4 Scalable performance of the Panasas parallel file system

Brent Welch, Marc Unangst, Zainul Abbasi, Garth Gibson, Brian Mueller, Jason February 2008 **FAST'08: Proceedings of the 6th USENIX Conference on File an Publisher: USENIX Association**

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

The Panasas file system uses parallel and redundant access to object storage distributed metadata management, consistent client caching, file locking set to provide a scalable, fault ...

5 Towards achieving fairness in the Linux scheduler

Chee Siang Wong, Ian Tan, Rosalind Deena Kumari, Fun Wey

July 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 5

Publisher: ACM

Full text available: Pdf (908.64 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 567, Download

The Operating System scheduler is designed to allocate the CPU resources Completely Fair Scheduler (CFS) design ensures fairness among tasks using This algorithm ensures ...

Keywords: Linux, completely fair scheduler, fairness, process scheduling

6 Servo: a programming model for many-core computing

Nicolas Zea, John Sartori, Rakesh Kumar

May 2008 **SIGARCH Computer Architecture News** Volume 36 Issue 2

Publisher: ACM

Full text available: Pdf (511.28 KB)

Additional Information: full citation, abstract,

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 105, Download

Conventional programming models were designed to be used by expert programs scale multiprocessors, distributed computational clusters, or specialized parallel therefore, are deemed either too difficult ...

7 OPENET Architecture, The

Israel CIDON, Tony Hsiao, Asad Kamisay, Abhay Parekh, Raphael Rom, Moshe

December 1995 **OPENET Architecture, The**

Publisher: Sun Microsystems, Inc.

Full text available: Pdf (195.25 KB)

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Downloads (C

ATM networks will soon be moving from the experimental stage of test-bed production networks are deployed and operated. The progress of ATM networks lack of a universal, open, and efficient ...

8 Minuet: rethinking concurrency control in storage area networks

Andrey Ermolinskiy, Daekyeong Moon, Byung-Gon Chun, Scott Shenker

February 2009 **FAST '09: Proceedings of the 7th conference on File and storage technologies**

Publisher: USENIX Association

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Total): n/a

Clustered applications in storage area networks (SANs), widely adopted in data centers, traditionally relied on distributed locking protocols to coordinate concurrent access. This paper examines the semantics of traditional ...

9 The development of the Emerald programming language

Andrew P. Black, Norman C. Hutchinson, Eric Jul, Henry M. Levy

June 2007 **HOPL III: Proceedings of the third ACM SIGPLAN conference on history of programming languages**

Publisher: ACM Request Permissions

Full text available: Mov (54:7 MIN), Pdf (1.45 MB) Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 208, Downloads (Total): 208

Emerald is an object-based programming language and system designed at the University of Washington in the early and mid-1990s. It is designed for the construction of distributed ...

Keywords: Eden, Emerald, Washington, abstract types, call-by-move, dismobility, object-oriented programming, polymorphism, remote object invocation, conformity

10 Solaris MC File System Framework

Yousef A. Khalidi, Vlada Matena, Ken Shirriff

October 1996 **Solaris MC File System Framework**

Publisher: Sun Microsystems, Inc.

Full text available: Pdf (71.09 KB) Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Downloads (Total): 4

The Solaris MC cluster operating system contains a new distributed file system framework. The file system's object-oriented interface is based on the framework for file system ...

11 Exploiting distributed version concurrency in a transactional memory client

Kalaiyan Manassishev, Madalin Mihaleşcu, Cristiana Amza

March 2006 **PPoPP '06: Proceedings of the eleventh ACM SIGPLAN symposium on partial and parallel programming**

Publisher: ACM Request Permissions

Full text available: Pdf (317.86 KB) Additional Information: full citation, abstract, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 92, Downloads (Total): 92

We investigate a transactional memory runtime system providing scaling a serializability on commodity clusters for both distributed scientific applications introduce a novel page-level ...

Keywords: concurrency control, in-memory, replicated databases, scalability

12 Active sensor networks

Philip Levis, David Gay, David Culler

May 2005 **NSDI '05: Proceedings of the 2nd conference on Symposium on Networked Systems Design and Implementation - Volume 2**, Volume 2

Publisher: USENIX Association

Full text available: Pdf (342.49 KB)

Additional Information: [full citation](#), abstract,

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 68, Downloads

We propose using application specific virtual machines (ASVMs) to reprogram ASVMs provide a way for a user to define an application-specific boundary This allows programs to be ...

13 Performance evaluation of the Orca shared-object system

Henri E. Bal, Raoul Bhoedjang, Rutger Hofman, Ceriel Jacobs, Koen Langendoen
 February 1998 **Transactions on Computer Systems (TOCS)**, Volume 16 Issue 1

Publisher: ACM

Full text available: Pdf (179.39 KB)

Additional Information: [full citation](#), abstract,

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 46, Downloads

Orca is a portable, object-based distributed shared memory (DSM) system design choices made in the Orca system and compares Orca with other DSMs analysis of Orca's coherence protocol ...

Keywords: distributed shared memory, parallel processing, portability

14 OLTP through the looking glass, and what we found there

Stavros Harizopoulos, Daniel J. Abadi, Samuel Madden, Michael Stonebraker
 June 2008 **SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference**

Publisher: ACM

Full text available: Pdf (308.68 KB)

Additional Information: [full citation](#), abstract,

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 378, Downloads

Online Transaction Processing (OLTP) databases include a suite of features locking-based concurrency control, support for multi-threading - that were the late 1970's. Advances ...

Keywords: dbms architecture, main memory transaction processing, oltp,

15 FAB: building distributed enterprise disk arrays from commodity components

Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence
 December 2004 **ASPLOS-XI: Proceedings of the 11th international conference**

programming languages and operating systems

Publisher: ACM  Request Permissions

Full text available:  Pdf (671.67 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 90, Downloads

This paper describes the design, implementation, and evaluation of a Fede
disk array that provides the reliability of traditional enterprise arrays with I
built from a ...

Keywords: consensus, disk array, erasure coding, replication, storage, vo

Also published in:

November 2004 **SIGPLAN Notices**

Volume 39 Issue 11

December 2004 **SIGOPS Operating Systems Review**

Volume 38 Issue 5

December 2004 **SIGARCH Computer Architecture News**

Volume 32 Issue 5

16 Scheduler-conscious synchronization

 Leonidas I. Kontothanassis, Robert W. Wisniewski, Michael L. Scott

 February 1997 **Transactions on Computer Systems (TOCS)** . Volume 15 Issue

Publisher: ACM  Request Permissions

Full text available:  Pdf (682.20 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 64, Downloads

Efficient synchronization is important for achieving good performance in pa
scale multiprocessors. Most synchronization algorithms have been designed
one application process per ...

Keywords: barriers, busy-waiting, kernel-user interaction, locks, mutual e
scheduling, synchronization

17 The Chubby lock service for loosely-coupled distributed systems

 Mike Burrows

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating sy**

Publisher: USENIX Association

Full text available:  Pdf (201.57 KB)

Additional Information: [full citation](#), [abstract](#),

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 112, Download

We describe our experiences with the Chubby lock service, which is intend
well as reliable (though low-volume) storage for a loosely-coupled distribut
interface much like a distributed ...

18 Proceedings of the 2008 ACM symposium on Applied computing

 Roger L. Wainwright, Hisham M. Haddad

 March 2008 **SAC '08: Proceedings of the 2008 ACM symposium on Applied co**

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC) dedicated to computer scientists, engineers, and practitioners seeking innovative computer applications. This year, the conference ...

19 Architecture of a Database System

Joseph M. Hellerstein, Michael Stonebraker, James Hamilton
February 2007 **Foundations and Trends in Databases**, Volume 1 Issue 2

Publisher: Now Publishers Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Download

Database Management Systems (DBMSs) are a ubiquitous and critical component of modern computing systems. They have been the result of decades of research and development in both academia and industry. The earliest multi-user server systems ...

20 Optimistic concurrency for clusters via speculative locking

Michael Factor, Assaf Schuster, Konstantin Shagin, Tal Zemir
May 2009 **SYSTOR '09: Proceedings of SYSTOR 2009: The Israeli Experiment**

Publisher: ACM Request Permissions

Full text available: Pdf (538.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 41, Downloads (12 Months): 41

Transactional memory and speculative locking are optimistic concurrency control methods that enable highly concurrent execution while reducing the programming effort. Both methods are optimistically ...

Keywords: distributed computing, optimistic concurrency control

Result per page

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2009

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads: Adobe Acrobat QuickTime Windows Media Player RealPlayer